



# NOVADUR S

## Colored mineral floor hardener

- ▷ **High mechanical strength**
- ▷ **Wear resistance**
- ▷ **Fast application**
- ▷ **Easy cleaning**

<b>Description</b>	NOVADUR S is a pre-mixed, colored mineral concrete hardener. It consists of high strength cement, selected quartz aggregates, special additives and pigments. By spreading and mechanical incorporation into the fresh concrete creates smooth, monolithic floors with reduced porosity and wear resistance.
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<b>Certifications</b>	CE Marking with Declaration of Performance (DoP) C06086-CPR-1855121 as cementitious floor screed material according EN 13813, category CT-C80-F7-A6-B2.
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<b>Uses</b>	NOVADUR S is suitable for: <ul style="list-style-type: none"><li>• Warehouses and industrial areas</li><li>• Loading and unloading areas</li><li>• Shopping centers and corridors</li><li>• Residences and hotels of modern industrial architecture</li><li>• Constructions where wear durable and wear resistant floor are required</li></ul>
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## Technical Data

### Product Identity

Form	Powder
Color	Grey, other colors upon request
Chemical substance	Portland cement, quartz aggregates, special additives
Granulometry	D <sub>max</sub> : 2.0 mm
Bulk density	1.8 ± 0.1 kg/L
Storage	12 months on dry area in the original sealed packaging

### Final performance with W/C 15%

	Performance	Method
Compressive strength	$\geq 80 \text{ N/mm}^2$	EN 13892-2
Flexural strength	$\geq 7 \text{ N/mm}^2$	EN 13892-2
Chloride ion content	$\leq 0.02 \%$	EN 1015-17
Wear resistance	$\leq 6 \text{ cm}^3/50 \text{ cm}^2$	EN 13892-3
Bond strength	$\geq 2.0 \text{ N/mm}^2$	EN 13892-8
Dangerous substances comply with 5.4	comply with 5.4	EN 196-10
Reaction to fire	A1	EN 13501

## Application Procedure

### Substrate Quality

The characteristics of concrete determine the ultimate strength of the industrial floor. It is recommended to use standard strength classes eg. C20/25 or C25/30 etc. using superplasticizers to ensure optimum quality and workability.

### Preparation of the mix

Spread NOVADUR S in one application,  $3 - 5 \text{ kg/m}^2$  on the fresh concrete after screeding. Then power float repeatedly in order to achieve the final finish. For manual application spread onto the screeded concrete in 2 stages. First stage with  $2/3$  of the total amount and second stage  $1/3$ . For final finishing, to close the pores and remove undulation achieved either by hand or power trowel.

NOVADUR S sealing should begin immediately after finishing, but not earlier than 2 hours using one of the PLANOFINISH AC-S, PLANOFINISH CH or PLANOFINISH CH PLUS. Refer to the corresponding technical data sheet of the products.

### Joints

One day after applying the NOVADUR S hardener, the joints are cut 3-5 mm wide in approximately  $20\text{-}25 \text{ m}^2$  sections according to the floor design and requirements. Fill the clean joints with a suitable elastomeric mastic.

### Recommendations

- Do not add water to the surfaces where the NOVADUR S hardener is to be used

- Do not apply in conditions of high wind or drought. At humidity levels below 40% efflorescence can appear on the surface. On the contrary, in conditions of increased humidity, above 80%, and low temperatures, bleeding and slower curing can occur.
- Minor color variations on the final surface are expected, common and due to the nature of the concrete
- Small capillary cracks may appear on the final surface. This is typical for all power troweled surfaces and does not adversely affect the floor performance
- Application should be performed by professional users

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**Consumption**

This consumption is 3 – 5 kg/m<sup>2</sup>.

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**Cleaning**

Tools, buckets, tiles etc. Can be cleaned with fresh clean water as long as, NOVADUR S is still fresh. After hardening occurs, cleaning can take place by mechanical means.

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**Storage**

NOVADUR S remains stable for 12 months from production date stored inside its original sealed packaging, stored in protected dry area in temperature between +5°C and +35°C.

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**Packaging**

Multi-layer paper bags of 25 kg

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**Safety Instructions**

For information and instructions regarding disposal and safe handling, users should refer to the latest Safety Data Sheet of the product containing ecological, toxicological and other safety-related data.

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**Warning**

The technical data and recommendations contained or listed in this leaflet are the result of laboratory measurements, of our current knowledge and experience. All the above-mentioned information and specifications should in any case be considered as indicative, as they may differ from each other. The Company makes every effort to ensure the accuracy of the information provided herein. Product specifications, prices and availability are subject to change without notice and may differ from those shown.

In practice, variations in materials, substrates and on-site implementation conditions are such that no warranty can be given or implied, as to the merchantability or suitability of the materials for a particular purpose and for the exact conditions of each project. Anyone interested of using the product must be sure beforehand that the product is suitable for the intended use and in any case, the user is solely responsible for any consequences due to the use of the product. Among other things, the Company is not responsible for any normal wear or tear from environmental or other inappropriate conditions. We reserve the right to revise or change the data herein without prior notice.

Restrictions and disclaimers apply to the extent permitted by applicable law. The Company has a Technical Support Department, which is the only one responsible for providing technical advice and solutions to deal with problems. Requests to the Technical Support Department are addressed and answered, only in writing.

For the latest and a valid version of the Technical Data Sheet, the user of the material must refer to our website [www.novamix.gr](http://www.novamix.gr) or directly to the QR Code of the product.



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